## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 20 January 2005 (20.01.2005)

**PCT** 

## (10) International Publication Number WO 2005/006090 A1

(51) International Patent Classification<sup>7</sup>: G01C 21/00, H04L 7/00

G05B 11/01,

(21) International Application Number:

PCT/US2004/017438

(22) International Filing Date:

1 July 2004 (01.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/483,629

1 July 2003 (01.07.2003) US

- (71) Applicant (for all designated States except US): FREESCALE SEMICONDUCTOR, INC. [US/US]; 6501 Williams Cannon Drive West, Austin, TX 78735 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SHVODIAN, William, M. [US/US]; 1301 Capulet Ct., McLean, VA 22102 (US). APISDORF, Joel, Z. [US/US]; 12205 Nutmeg Lane, Reston, VA 20191 (US).
- (74) Agents: POSZ, David, G. et al.; Posz & Bethards, plc, 11250 Roger Bacon Drive, Suite 10, Reston, VA 20190 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Declaration under Rule 4.17:

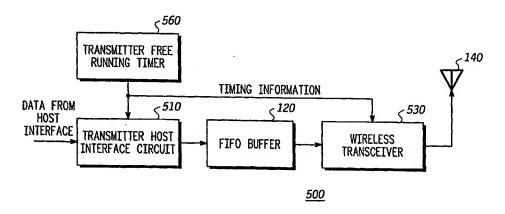
of inventorship (Rule 4.17(iv)) for US only

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNCHRONIZATION OF DATA STREAMS OVER A WIRELESS NETWORK



(57) Abstract: A transmitter (500) is provided for transmitting host data over a wireless channel. The transmitter (500) includes a free-running timer (560) that provides a series of increasing free-running timing values; a host interface circuit (510) that receives host data from a local host circuit and a first free-running timing value from the series of increasing free-running timing values; a detection circuit (530) for detecting a global synchronizing event and receiving a second free-running timing value from the series of increasing free-running timing value, and for placing the host data and the first free-running timing value into a host interface packet; and a wireless transceiver (530) for adding the second free-running timing value and an identifier for the global synchronizing event to the host interface packet to form an air link frame, and transmitting the air link frame over a wireless channel to a remote wireless device.

